Panasonic

900MHz Cordless Phone

Model No. KX-TC1851B
KX-TC1851W
KX-TC1852B

Pulse-or-tone dialing capability

Operating Instructions

PLEASE READ BEFORE USE AND SAVE.

Charge the battery for about 6 hours before initial use.

Panasonic World Wide Web address: http://www.panasonic.com
for customers in the USA or Puerto Rico

Before Initial Use

Please read IMPORTANT SAFETY INSTRUCTIONS on page 52 before use. Read and understand all instructions.

Thank you for purchasing your new Panasonic cordless telephone.

Caller ID and Call Waiting Service, where available, are telephone company services. After subscribing to Caller ID, this phone will display a caller's name and phone number. Call Waiting Caller ID, which displays a second caller's name and phone number while the user is on another call, requires a subscription to both Caller ID and Call Waiting.

Attach your purchase receipt here.

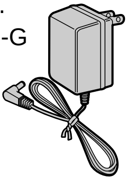
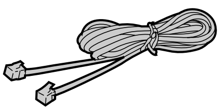
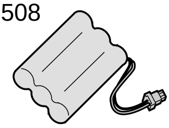
For your future reference

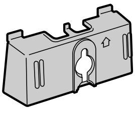
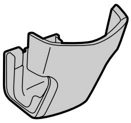
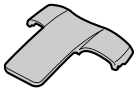
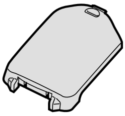
Serial No. ______________________ Date of purchase ______________________
(found on the bottom of the unit)

Name and address of dealer ______________________

Accessories (included)

For extra orders, call 1-800-332-5368.

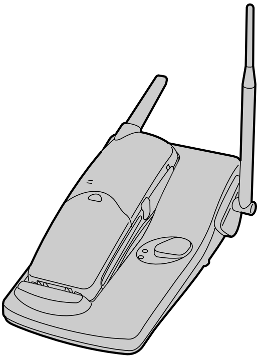
☐ AC Adaptor (p. 10) Order No. KX-TCA1-G  one	☐ Telephone Line Cord (p. 10)  one	☐ Battery (p. 11) Order No. P-P508  one

☐ Wall Mounting Adaptor (p. 46) Order No. PQKL10035Z1 (Black) PQKL10035Z2 (White)  one	☐ Handset Holder (p. 46) Order No. PQKE10097Z1 (Black) PQKE10097Z2 (White)  one	☐ Belt Clip (p. 13) Order No. PQKE10098Z1 (Black) PQKE10098Z2 (White)  one	☐ Handset Cover (p. 11) Order No. PQKK10099Z1 (Black) PQKK10099Z2 (White)  one

For Best Performance

Battery Charge

A rechargeable Ni-Cd battery powers the handset. Charge the battery for about **6 hours** before initial use (p. 11).

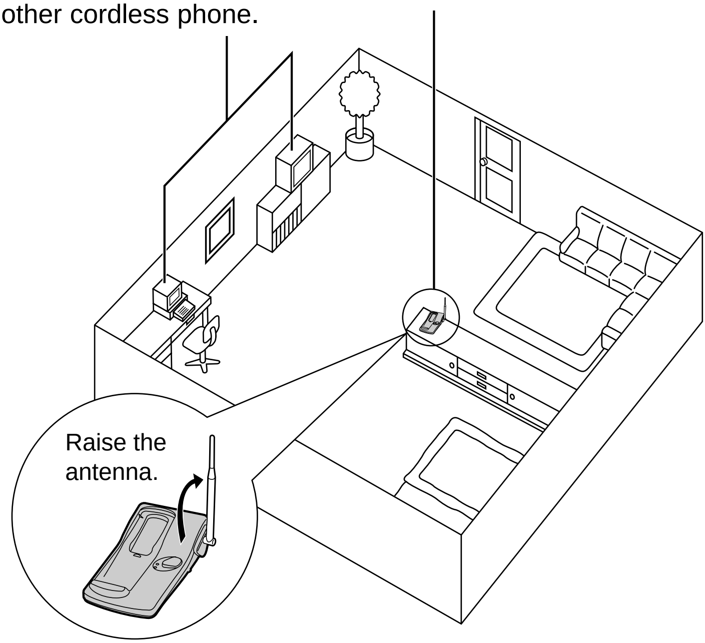


Base Unit Location/Noise

Calls are transmitted between the base unit and the handset using wireless radio waves. **For maximum distance and noise-free operation**, the recommended base unit location is:

Away from electrical appliances such as a TV, personal computer or another cordless phone.

In a HIGH and CENTRAL location with no obstructions such as walls.


Raise the antenna.

- If more than one cordless phone is being used and your handset is near another cordless phone’s base unit, noise may be heard. Move away from the other cordless phone’s base unit and closer to your base unit.

Contents

Preparation

Location of Controls 6

Display 8

Settings. 10
  Connections 10
  Installing the Battery in the Handset 11
  Battery Charge 11
  Using the Belt Clip 13
  Using an Optional Headset 13
  Selecting the Dialing Mode 14
  Selecting the Line Mode 15

Programmable Functions 16
  Setting the Auto Talk Feature 17
  Selecting the Ringer Volume. 18

Basic Operation

Making Calls. 19

Answering Calls. 21

Advanced Operation

Caller ID Service. 22

Using the Caller List. 24
  Viewing the Caller List. 24
  Calling Back from the Caller List 26
  Editing the Caller’s Phone Number 27
  Storing Caller List Information in the Directory. 28
  Erasing Caller List Information 29

One-Touch Dialer 30
  Storing a Phone Number in the DIRECT Button 30
  Dialing the Stored Number in the DIRECT Button 31

Using the Directory 32
Storing Names and Numbers in the Directory 32
Steps for Entering Names and Symbols 34
Finding Items in the Directory 36
Dialing from the Directory 37
Editing an Item in the Directory 38
Erasing an Item from the Directory 39

Voice Mail Service 40
Storing a Voice Mail Access Number 40
Setting the Voice Mail Tone 41
Listening to Voice Mail Messages 42

Special Features. 43
Automatic Security Code Setting. 43
Handset Locator 43
For Call Waiting Service Users 44
Temporary Tone Dialing
(For Rotary or Pulse Service Users) 44
How to Use the PAUSE Button
(For Analog PBX Line/Long Distance Service Users). 44
FLASH Button. 45

Useful Information

Wall Mounting. 46

Battery Replacement 48

Adding Another Phone 48

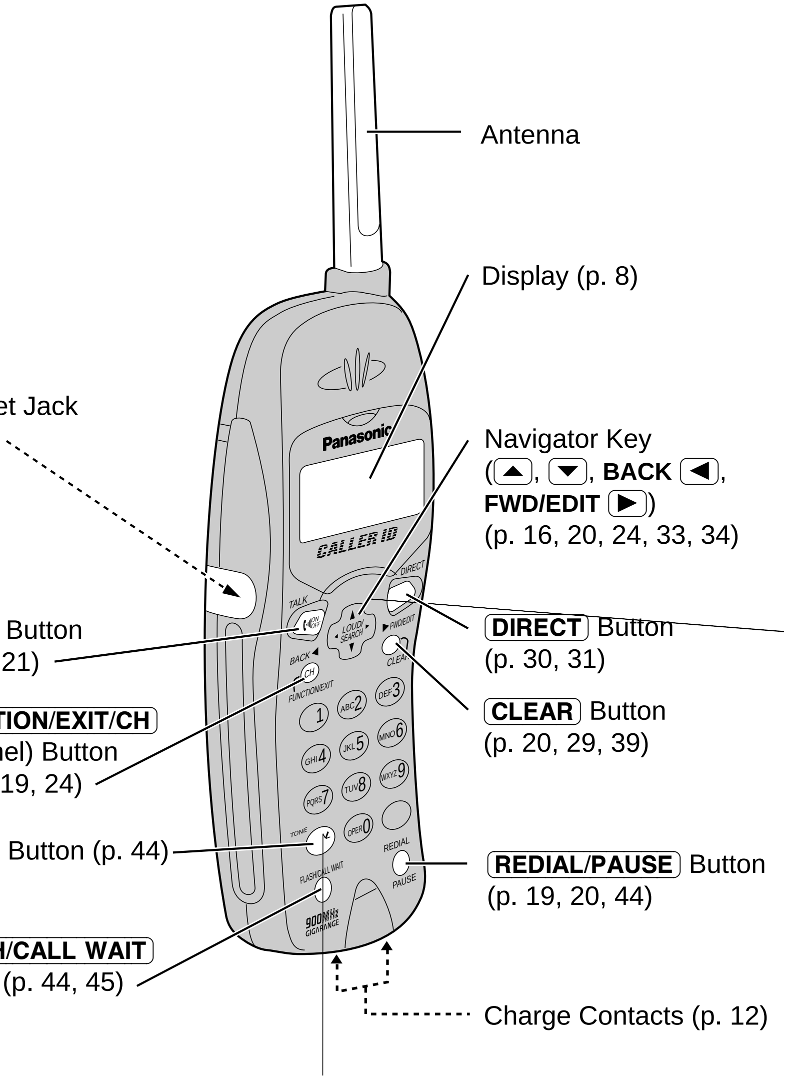
Before Requesting Help. 49

Important Safety Instructions 52

FCC and Other Information 54

Location of Controls

Handset


Panasonic
CALLER ID
TALK
DIRECT
LOUD/SEARCH
FWD/EDIT
BACK
CH
FUNCTION/EXIT
CLEAR
1
ABC2
DEF3
GHI4
JKL5
MNO6
PQRS7
TUV8
WXYZ9
TONE
OPER0
REDIAL
PAUSE
FLASH/CALL WAIT
900MHz GIGARANGE

Antenna

Display (p. 8)

Headset Jack
(p. 13)

Navigator Key
(▲, ▼, **BACK** ◀, **FWD/EDIT** ▶)
(p. 16, 20, 24, 33, 34)

TALK Button
(p. 19, 21)

DIRECT Button
(p. 30, 31)

FUNCTION/EXIT/CH
(Channel) Button
(p. 16, 19, 24)

CLEAR Button
(p. 20, 29, 39)

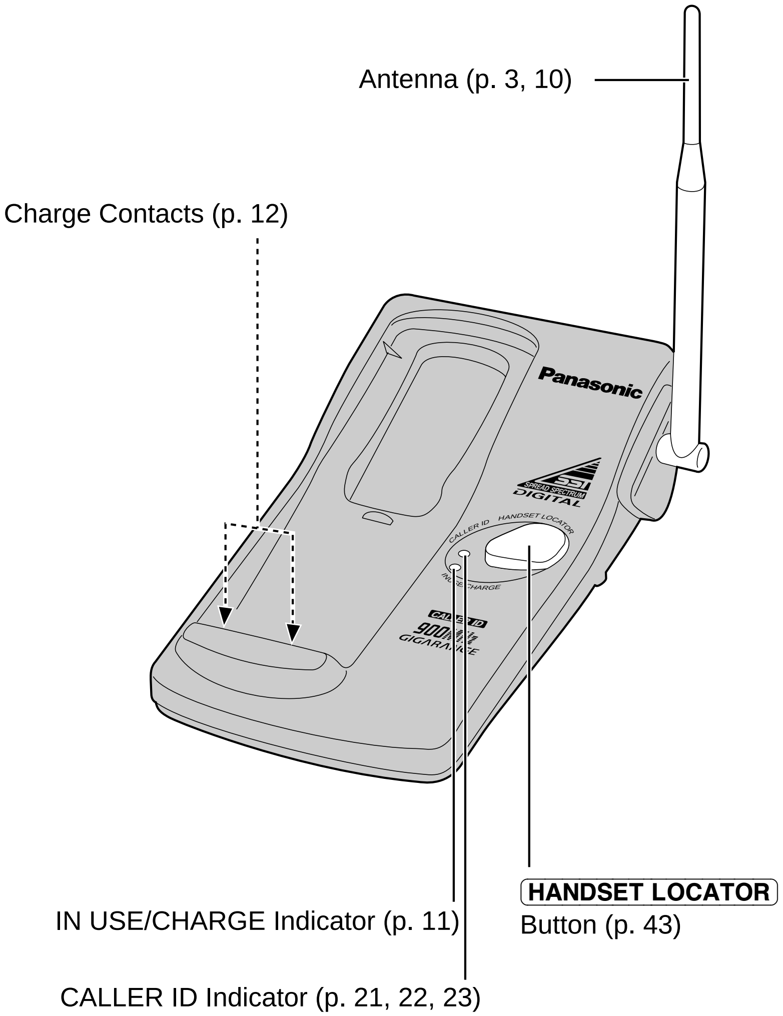
TONE Button (p. 44)

REDIAL/PAUSE Button
(p. 19, 20, 44)

FLASH/CALL WAIT
Button (p. 44, 45)

Charge Contacts (p. 12)

Base unit


Antenna (p. 3, 10)
Charge Contacts (p. 12)
Panasonic
SPREAD SPECTRUM
DIGITAL
CALLER ID
HANDSET LOCATOR
IN USE/CHARGE
CALLER ID
900
GIGARANGE
HANDSET LOCATOR
Button (p. 43)
IN USE/CHARGE Indicator (p. 11)
CALLER ID Indicator (p. 21, 22, 23)

Display

The handset shows you instructions and information on the display. These display prompts are shown below.

`No items stored`	The Caller List is empty or there are no stored items in the directory.
`Recharge battery` `[ ▮]`	The battery needs to be charged. Place the handset on the base unit to charge the battery (p. 11).
`12 new calls` `[▮▮▮]`	The display shows the number of new calls and the battery strength (p. 11) while the handset is on the base unit.
`12 new calls` `▼▲ ▶=Directory`	The display shows the number of new calls when ▼ or ▲ is pressed while the handset is off the base unit. To search from the most recent call, press ▼. To search from the oldest call, press ▲ (p. 24). To go to the directory list, press **FWD/EDIT** ▶ (`Directory` key).
✉ `Voicemail`	The display shows the voice mail message(s) is/are recorded (p. 40).
`Ringer off`	When the ringer volume is set to OFF (p. 18), “`Ringer off`” will flash for about 45 seconds before the handset returns to the standby mode (p. 12).
`TINA ROBINSON` `1-000-222-3333`	When a call is received, the display shows the caller’s name and number after the first ring.
`Talk` `01-06-35 [▮▮▮]`	During a conversation, the display shows the length of the call (ex. 1 hour, 6 minutes and 35 seconds). The battery strength is also displayed (p. 11).

`No link to base.`
`Place on cradle`
`and try again.`
	The handset has lost communication with the base unit. Place the handset on the base unit and try again.

`JACK SMITH`
`1-222-333-4444`
`11:20A JAN.12 ×3`
	This is a name from the Caller List.
	The display shows:
	—the caller's name,
	—the caller's number,
	—the time and date of the last call (ex. Jan. 12, 11:20 AM), and
	—the number of times called (ex. 3 times).

`📖`
`Ann`
`1234567890`
	This is a name from the directory. The stored name and phone number are displayed.

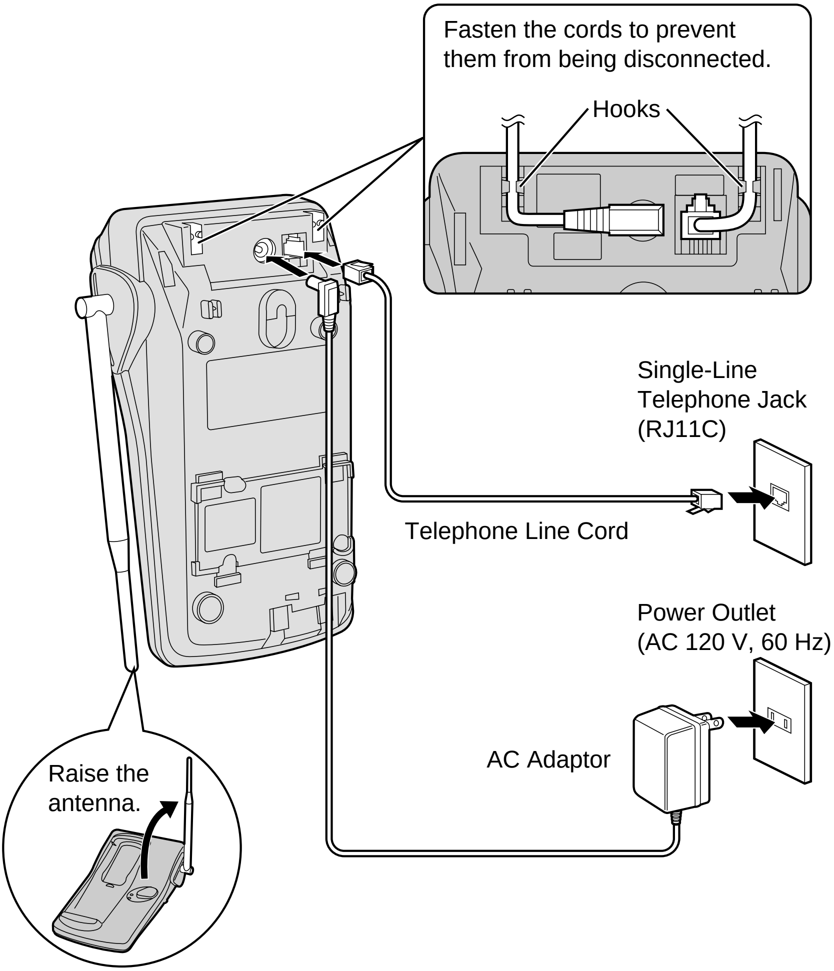
`Paging`	The base unit is paging the handset (p. 43).

`NANCY BROWN`
`1-000-222-3333`
`----Waiting-----`
	A second call is received during a conversation (p. 44).

`Please lift up` `and try again`	▼, ▲, **BACK** ◀ or **FWD/EDIT** ▶ was pressed while the handset was on the base unit. Lift the handset and press the button again.
`Not available`	▼, ▲, **BACK** ◀ or **FWD/EDIT** ▶ was pressed while the base unit was not in the standby mode.
`📖` `Directory full`	When trying to store an item or Caller List information in the directory, the directory memory is full (p. 28, 33).

Settings

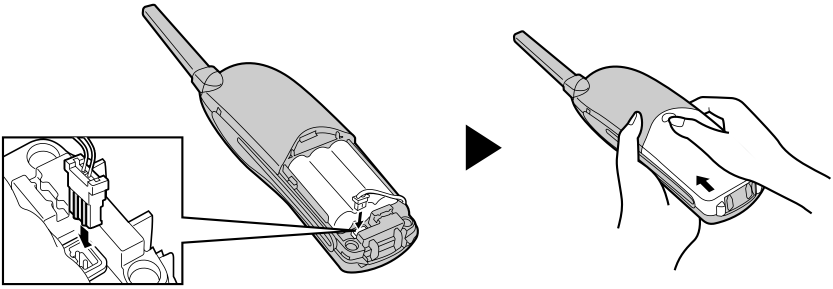
Connections


Fasten the cords to prevent them from being disconnected.
Hooks
Single-Line Telephone Jack (RJ11C)
Telephone Line Cord
Power Outlet (AC 120 V, 60 Hz)
AC Adaptor
Raise the antenna.

- USE ONLY WITH Panasonic AC ADAPTOR KX-TCA1 (Order No. KX-TCA1-G).
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- To connect a standard telephone on the same line, see page 48.
- If your unit is connected to a PBX which does not support Caller ID and voice mail services, you cannot access those services.

Installing the Battery in the Handset

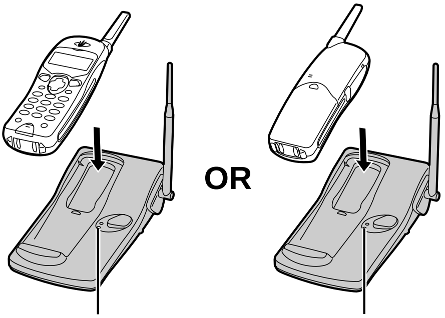
Install the battery and close the handset cover, locking it into place.



Battery Charge

Place the handset on the base unit and charge for about **6 hours** before initial use.

- The IN USE/CHARGE indicator lights.



Battery strength

You can check the battery strength on the display while the handset is on the base unit, while it is in use (making/answering a call etc.), or after viewing the Caller List or directory items, programming etc.
The battery strength will remain for 5 seconds after using the handset, then the display will return to the standby mode (see next page).

The battery strength is as shown in the chart below.

Display prompt	Battery strength
[▮▮▮]	Fully charged
[▮▮]	Medium
[▮]	Low
[▮] (flashing)	Needs to be recharged.

Recharge

`Recharge battery`
`[ ▮]`

Recharge the battery when:
—“`Recharge battery`” is displayed,
—“`[ ▮]`” flashes on the display, or
—the handset beeps intermittently while it is in use.

- If you DO NOT recharge the handset battery for more than 15 minutes, the display will keep indicating “`Recharge battery`” and/or “`[ ▮]`” will continue to flash.

Battery information

After your Panasonic battery is fully charged (p. 11):

Operation		Approx. battery life
While in use (TALK)	near the base unit*	Up to about 6 hours
	away from the base unit	Up to about 4 hours
While not in use (Standby)		Up to about 14 days

*Within about 10 feet (3 m)

- Battery life may be shortened depending on usage conditions, such as viewing the Caller ID Caller List or directory list, and ambient temperature.
- **Clean the handset and the base unit charge contacts with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.
- If the battery is fully charged, you do not have to place the handset on the base unit until “`Recharge battery`” is displayed and/or “`[ ▮]`” flashes. This will maximize the battery life.
- The battery cannot be overcharged.

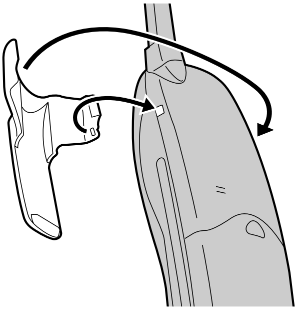
Standby Mode (The handset is off the base unit)

The handset goes into the standby mode after you finish using the handset (making/answering a call, viewing the Caller List or directory list etc.). The display is blank, but the handset can receive calls.
The battery life is conserved in this mode.

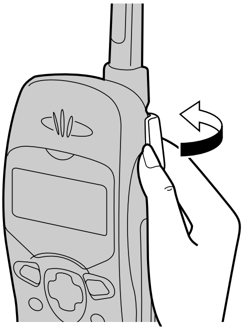
Using the Belt Clip

You can hang the handset on your belt or pocket using the belt clip.

To attach the belt clip



To remove the belt clip



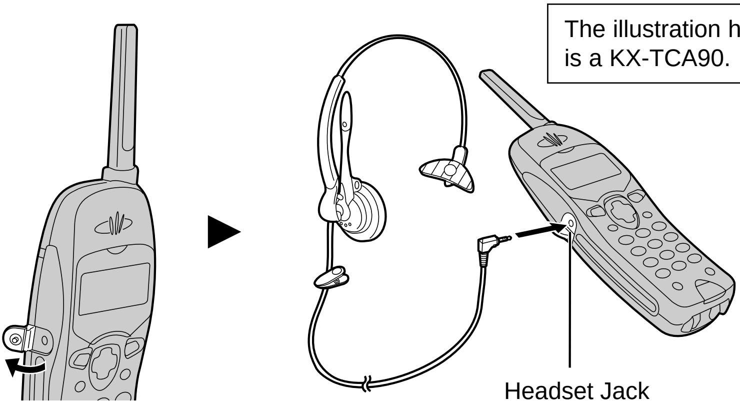
Using an Optional Headset

Plugging an optional headset into the handset allows a hands-free phone conversation. Please use only a Panasonic KX-TCA87 or KX-TCA90 headset. To order, call the accessories telephone number on page 2.

Connecting an optional headset to the handset

Open the headset jack cover, and connect an optional headset to the headset jack as shown below.

The illustration headset is a KX-TCA90.



When an optional headset is connected to the handset, make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

Selecting the Dialing Mode

If you have touch tone service, set to “Tone”. If rotary or pulse service is used, set to “Pulse”. Your phone comes from the factory set to “Tone”.
Make sure the handset is in the standby mode.

1 Press (**FUNCTION/EXIT/CH**).

```
▶Save directory
 Voicemail dial
▼▲          ▶=Yes
```

2 Press (▼) or (▲) repeatedly until the arrow points to “`Program`”.

```
 Ringer volume
▶Program
▼▲          ▶=Yes
```

3 Press **FWD/EDIT** (▶) (Yes key).

```
▶Save DIRECT#
 Set flash time
▼▲          ▶=Yes
```

4 Press (▼) or (▲) repeatedly until the arrow points to “`Set dial mode`”.

```
 Set line mode
▶Set dial mode
▼▲          ▶=Yes
```

5 Press **FWD/EDIT** (▶) (Yes key).

```
 Dial mode
           :Tone
▼▲         ▶=Save
```

6 Press (▼) or (▲) to select “`Pulse`” or “Tone”. Press **FWD/EDIT** (▶) (Save key).
- A beep sounds.
- To return to the standby mode, press (**FUNCTION/EXIT/CH**).

```
 Dial mode
           :Pulse
```

- You can exit the programming mode any time by pressing (**FUNCTION/EXIT/CH**).

Selecting the Line Mode

If the line is connected to a low voltage system such as a PBX, set to “B”. Otherwise the unit may not ring and the Call Waiting Caller ID Feature may not be accessible (p. 44). Your phone comes from the factory set to “A”.

Make sure the handset is in the standby mode.

1 Press **FUNCTION/EXIT/CH**.

```
▶Save directory
 Voicemail dial
▼▲           ▶=Yes
```

2 Press ▼ or ▲ repeatedly until the arrow points to “`Program`”.

```
 Ringer volume
▶Program
▼▲           ▶=Yes
```

3 Press **FWD/EDIT** ▶ (`Yes` key).

```
▶Save DIRECT#
 Set flash time
▼▲           ▶=Yes
```

4 Press ▼ or ▲ repeatedly until the arrow points to “`Set line mode`”.

```
▶Set line mode
 Set dial mode
▼▲           ▶=Yes
```

5 Press **FWD/EDIT** ▶ (`Yes` key).

```
 Line mode
               :A
▼▲          ▶=Save
```

6 Press ▼ or ▲ to select “`B`” or “`A`”. Press **FWD/EDIT** ▶ (`Save` key).

- A beep sounds.
- To return to the standby mode, press **FUNCTION/EXIT/CH**.

```
 Line mode
               :B
```

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.

Programmable Functions

You can program the following function items **using the handset near the base unit.** The display shows the programming instructions. See the corresponding pages for function details.
Make sure the handset is in the standby mode.

Press **(FUNCTION/EXIT/CH)**.

<Function menu>*

▶Save directory	To store an item in the directory (p. 33).
Voicemail dial	To dial the access number for voice mail service (p. 42).
Ringer volume	To select the ringer volume (p. 18).
Program	

Press **FWD/EDIT** (▶).

<Function menu>*

▶Save DIRECT#	To store a phone number in the DIRECT button (p. 30).
Set flash time	To select the flash time (p. 45).
Save mailbox#	To store a voice mail access number (p. 40).
Voicemail tone	To set the voice mail tone (p. 41).
Set line mode	To select the line mode (p. 15).
Set dial mode	To select the dial mode (p. 14).
Talk switching	To set the auto talk feature (p. 17).

During programming

*To select a desired function item, press (▼) or (▲) repeatedly until the arrow points to the item. Then press **FWD/EDIT** (▶) to go to the next step.

- ●You can exit the programming mode any time by pressing **(FUNCTION/EXIT/CH)**.
- ●If you do not press any buttons for 60 seconds, the unit will return to the standby mode.

Setting the Auto Talk Feature

The Auto Talk feature allows you to answer a call by lifting the handset off the base unit without pressing **TALK**. If you want to use this feature, turn the feature ON by programming. Your phone comes from the factory set to OFF.

Make sure the handset is in the standby mode.

1 Press **FUNCTION/EXIT/CH**.

2 Press ▼ or ▲ repeatedly until the arrow points to “`Program`”.

```
 Ringer volume
▶Program
▼▲          ▶=Yes
```

3 Press **FWD/EDIT** ▶ (`Yes` key).

4 Press ▼ or ▲ repeatedly until the arrow points to “`Talk switching`”.

```
▶Talk switching

▼▲          ▶=Yes
```

5 Press **FWD/EDIT** ▶ (`Yes` key).

```
 Auto talk
           :Off
▼▲        ▶=Save
```

6 Press ▼ or ▲ to select “`On`” or “`Off`”.
Press **FWD/EDIT** ▶ (`Save` key).

- A beep sounds.
- To return to the standby mode, press **FUNCTION/EXIT/CH**.

```
 Auto talk
           :On
```

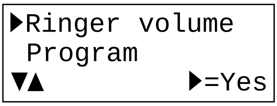
- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- To answer a call when the Auto Talk feature is OFF, lift the handset off the base unit and press **TALK**.

Selecting the Ringer Volume

You can program the ringer volume to HIGH, LOW or OFF. If set to OFF, the unit will not ring. Your phone comes from the factory set to HIGH.
Make sure the handset is in the standby mode.

1 Press (FUNCTION/EXIT/CH).

2 Press (▼) or (▲) repeatedly to select “`Ringer volume`”.

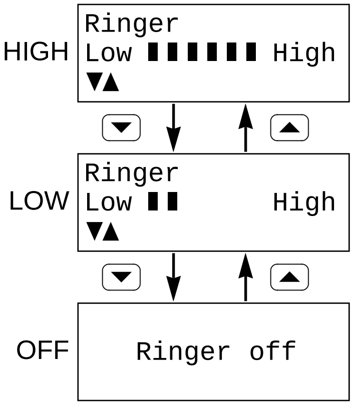


```
▶Ringer volume
 Program
▼▲           ▶=Yes
```

3 Press **FWD/EDIT** (▶) (`Yes` key).

4 Press (▼) or (▲) to select the desired volume.

- The selected volume is displayed and rings.
- To turn the ringer OFF, press and hold (▼) until 2 beeps sound.
- The handset will return to the standby mode.



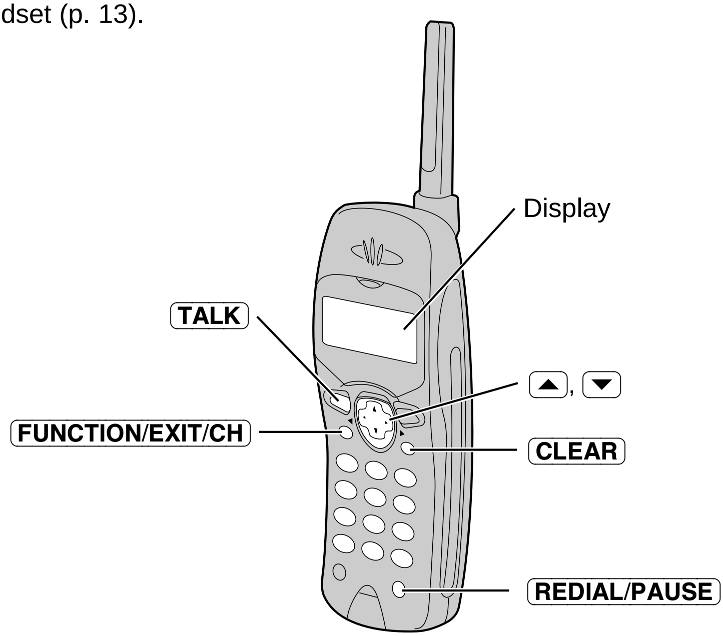
To turn the ringer ON, press (▲) or (▼) in step 4.

- The ringer will sound at the LOW level.

- When you replace the battery, the selected ringer volume setting will return to the factory set (HIGH). Reprogram if necessary.

Making Calls

To have a hand-free conversation, connect an optional headset to the handset (p. 13).



1 Press **TALK**.

```
Talk
```

2 Dial a phone number.
- The dialed number is displayed.
- After a few seconds, the display will show the length of the call and the battery strength.

```
Talk
1112222
```

```
Talk

00-00-00    [▮▮▮]
```

3 To hang up, press **TALK** or place the handset on the base unit.

If noise interferes with the conversation

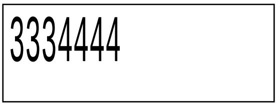
Press **FUNCTION/EXIT/CH** to select a clearer channel or move closer to the base unit.

To redial the last number dialed

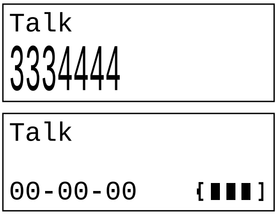
Press **TALK** ➜ **REDIAL/PAUSE**.

To dial after confirming the entered number

1 Dial a phone number.
- If you misdial, press **CLEAR**. All digits are erased. Dial the correct phone number.


3334444

2 Press **TALK**.
- After a few seconds, the display will show the length of the call and the battery strength.


Talk
3334444

Talk
00-00-00 [▮▮▮]

3 To hang up, press **TALK** or place the handset on the base unit.

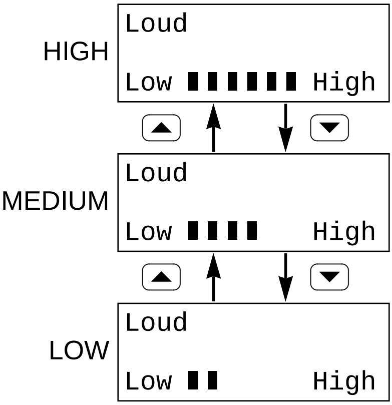
To redial after confirming the last number dialed

Press **REDIAL/PAUSE** ➡ **TALK**.

To select the receiver volume

Press ▲ or ▼ while talking.

- Each time you press ▲ or ▼, the volume level will change.
- The display will return to the length of the call.
- Your phone comes from the factory set to MEDIUM.



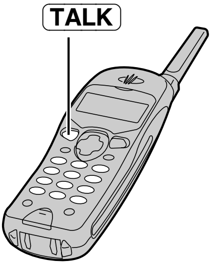
- When you replace the battery, the selected receiver volume setting will return to the factory set (MEDIUM). Reprogram if necessary.

Answering Calls

When a call is received, the unit rings and the CALLER ID indicator on the base unit flashes quickly. If you subscribe to a Caller ID service, the calling party information will be displayed after the first ring (p. 22). In order to view the Caller ID information, please wait until the second ring to answer a call.

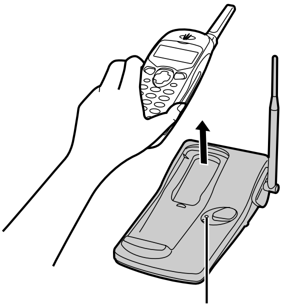
Lift the handset off the base unit and press (TALK).

- ●You can also answer a call by pressing any dialing button (0) to (9), (✱) or (#) (—**Any Key Talk**).



Auto Talk

If you set the Auto Talk feature to ON (p. 17), you can answer a call by lifting the handset off the base unit without pressing (TALK).



When an optional headset is connected (p. 13), make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

Backlit LCD display

The lighted handset display will stay on for about 10 seconds after pressing a handset button or lifting the handset off the base unit.

Lighted handset keypad

The handset dialing buttons will light when you press a button or lift the handset off the base unit, and flash when a call is received. The lights will go out about 10 seconds after pressing a button, lifting the handset or answering a call.

Caller ID Service

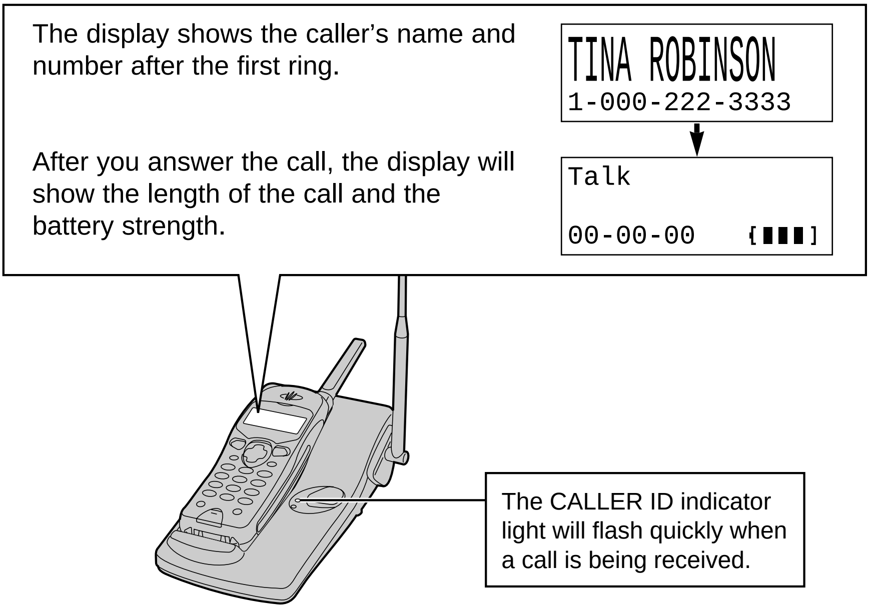
This unit is compatible with a Caller ID service offered by your telephone company. If you subscribe to a Caller ID service, the calling party's information will be displayed after the first ring.

The unit can record information of up to 50 different callers, including the time and date received and the number of times called, in the Caller List. The Caller List information is sorted by the most recent to the oldest call. When the 51st call is received, the first call is deleted.

Using the list, you can automatically call back a caller. You can store the callers' numbers from the Caller List into the directory.

If you subscribe to a Call Waiting Caller ID Feature, when a second call is received while talking, the new caller's name and phone number will be displayed (p. 44).

How caller information is displayed when a call is received



The display shows the caller's name and number after the first ring.

After you answer the call, the display will show the length of the call and the battery strength.

The CALLER ID indicator light will flash quickly when a call is being received.

- Caller information cannot be displayed in the following cases:
  - —If the caller dialed from an area which does not provide a Caller ID service, the display will show "`Out of area`".
  - —If the caller has requested not to display his/her information, the display will show "`Private caller`".

- If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.
- The name display service may not be available in some areas. For further information, please contact your telephone company.

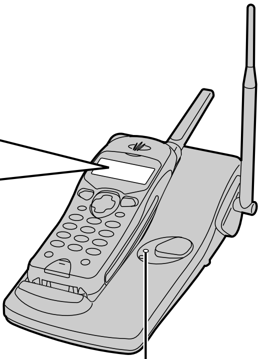
To check the number of new calls

When new calls have been received, the CALLER ID indicator flashes slowly on the base unit.

While the handset is on the base unit:

If you have received 10 new calls, the display will show the following:

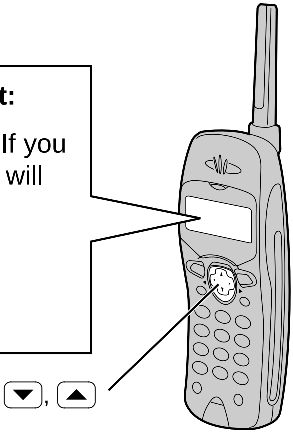
```
 10 new calls
         {▮▮▮]
```



While the handset is off the base unit:

Press ▼ or ▲ to turn the display on. If you have received 10 new calls, the display will show the following:

```
 10 new calls
▼▲   ▶=Directory
```



Using the Caller List

Viewing the Caller List

To check who has called, follow the steps below.
Make sure the handset is in the standby mode.

1 Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List.

- The display will show, for example, the following:

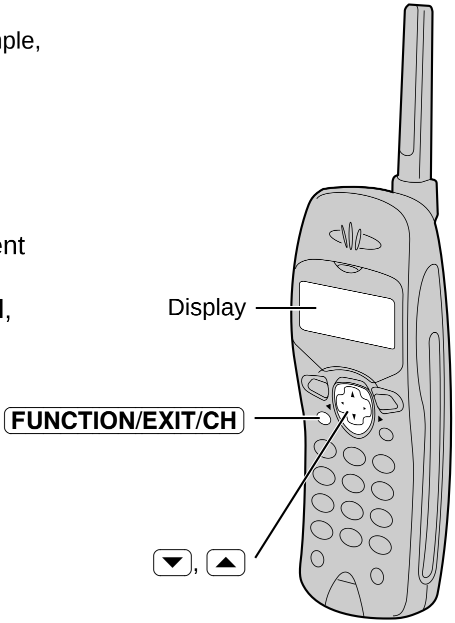
```
  2 new calls
▼▲   ▶=Directory
```

2 To search from the most recent call, press ▼.
To search from the oldest call, press ▲.

- To scroll between callers, press ▼ or ▲.

3 To exit the list, press **FUNCTION/EXIT/CH**.

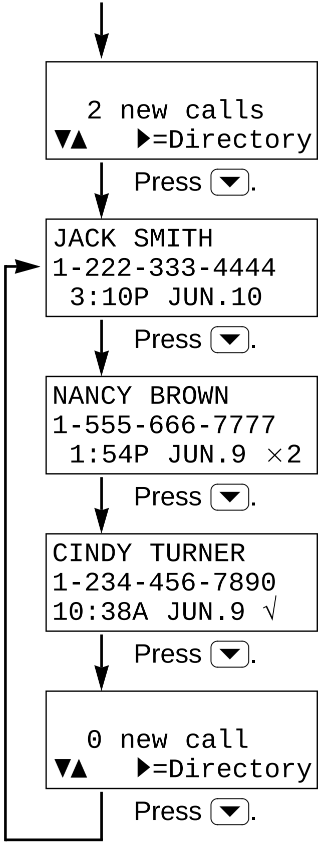
- The handset will return to the standby mode.



- Once new calls have been checked, “√” will be added.
- If “`No items stored`” is displayed in step 1, the Caller List is empty. After 5 seconds, the handset will return to the standby mode.
- If more than one call is received from the same caller, the date and time of the most recent call will be recorded. If the same caller calls again, the call entry with “√” will be deleted.
- In step 1, you can go to the directory list by pressing **FWD/EDIT** ▶ (p. 36).

Ex. When you search from the most recent call:

Lift the handset off the base unit and press ▼ or ▲.



```
  2 new calls
▼▲   ▶=Directory
```

Press ▼.

```
JACK SMITH
1-222-333-4444
 3:10P JUN.10
```

Press ▼.

```
NANCY BROWN
1-555-666-7777
 1:54P JUN.9 ×2
```

Press ▼.

```
CINDY TURNER
1-234-456-7890
10:38A JUN.9 √
```

Press ▼.

```
  0 new call
▼▲   ▶=Directory
```

Press ▼.

- If there is no name information for a caller, the display will only show the phone number.

To return to the previous caller, press ▲.

To exit the Caller List, press **FUNCTION/EXIT/CH**.

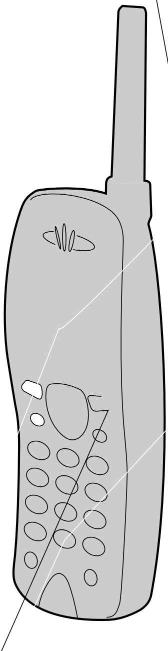
- The handset will return to the standby mode.

Display meaning:

√ : You have checked this caller information, answered the call or called back the caller.

×2–×9 : The number of times the same caller called (up to 9). After checking, "×2"–"×9" will be replaced with "√".

Calling Back from the Caller List



1 Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List.

```
  3 new calls
▼▲   ▶=Directory
```

2 Press ▼ or ▲ repeatedly to find the desired caller.

```
CINDY TURNER
1-234-456-7890
11:20A JAN.12 ×3
```

3 Press **TALK**.

- The displayed phone number is dialed automatically.

```
Talk
12344567890
```

```
Talk

00-00-00   [▮▮▮]
```

- In some cases, you may have to edit the number before dialing (p. 27).
  (Ex. You may have to delete “1” and the area code.)
- If a phone number is not displayed in the caller information, you cannot call back that caller.

Editing the Caller's Phone Number

The unit can edit a phone number into one of 4 patterns.
Make sure the handset is in the standby mode.

1 Lift the handset off the base unit and press (▼) or (▲) to enter the Caller List.

```
  5 new calls
▼▲   ▶=Directory
```

2 Press (▼) or (▲) repeatedly to find the desired caller. Press **FWD/EDIT** (▶).

```
FRED PARKER
1-234-321-5555
11:20A JAN.12 √
```

```
▶Edit
 Save directory
▼▲          ▶=Yes
```

3 While the arrow points to "`Edit`", press **FWD/EDIT** (▶) (`Yes` key).

```
FRED PARKER
1-234-321-5555
▼=Next    ▶=Edit
```

4 Press **FWD/EDIT** (▶) (`Edit` key) to select a pattern.

- ●Each time you press **FWD/EDIT** (▶), the number is rearranged into one of 4 different patterns.

a [Phone no.]

b [Area code] – [Phone no.]

c 1 – [Phone no.]

d 1 – [Area code] – [Phone no.]

- ●The order in which patterns a – d are displayed depends on how the telephone number is displayed in step 2.

a
```
FRED PARKER
321-5555
▼=Next    ▶=Edit
```

b
```
FRED PARKER
234-321-5555
▼=Next    ▶=Edit
```

c
```
FRED PARKER
1-321-5555
▼=Next    ▶=Edit
```

d
```
FRED PARKER
1-234-321-5555
▼=Next    ▶=Edit
```

5 After editing the number, you can continue with calling back or storing procedures.
To call back, press (TALK) (p. 26).
To store the number in the directory, press (▼) (`Next` key). Follow the instructions on the display (p. 28).

```
FRED PARKER
321-5555
▲=Edit    ▶=Save
```

- ●The number edited in step 4 will not be maintained in the Caller List.

Storing Caller List Information in the Directory

You can store numbers that are in the Caller List in the directory.
Make sure the handset is in the standby mode.

1 Lift the handset off the base unit and press [▼] or [▲] to enter the Caller List.

```
  10 new calls
▼▲    ▶=Directory
```

2 Press [▼] or [▲] repeatedly to find the caller you want to store in the directory. Press **FWD/EDIT** [▶] (`Yes` key).
- ●If the number requires editing, see page 27.

```
CINDY TURNER
1-234-456-7890
11:20A JAN.12 ×3
```

```
▶Edit
 Save directory
▼▲          ▶=Yes
```

3 Press [▼] or [▲] to select "`Save directory`". Press **FWD/EDIT** [▶] (`Yes` key).

```
 Edit
▶Save directory
▼▲          ▶=Yes
```

If there is no name information for the caller, "`Enter name`" will be displayed.

a) If a name is not required, press [▼] (`Next` key) and **FWD/EDIT** [▶] (`Save` key).

b) If a name is required, enter the name (p. 34). When finished, press [▼] (`Next` key) and **FWD/EDIT** [▶] (`Save` key).

```
Enter name
▒
◀▶          ▼=Next
```

```
Enter name
CINDY TURNER▒
◀▶          ▼=Next
```

```
CINDY TURNER
12344567890
           ▶=Save
```

- ●A beep sounds.
- ●The display will return to step 2. You can continue storing other items.
To return to the standby mode, press **[FUNCTION/EXIT/CH]**.

- ●You can exit the programming mode any time by pressing **[FUNCTION/EXIT/CH]**.
- ●If the display shows "`Directory full`" in step 3, the display will return to step 2. Press **[FUNCTION/EXIT/CH]** to exit the list. To erase other stored items from the directory, see page 39.
- ●You cannot store caller information in the directory if a phone number is not displayed.

Erasing Caller List Information

After checking the Caller List, you can erase some or all of the entries.
Make sure the handset is in the standby mode.

To erase a specific caller from the Caller List

1 Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List.

```
  10 new calls
▼▲   ▶=Directory
```

2 Press ▼ or ▲ repeatedly to find the caller you want to erase from the Caller List.

```
TOM REAGAN
1-888-777-6666
12:20A JAN.12 √
```

3 Press **CLEAR**.

- A beep sounds and the information is erased.
- After a few seconds, the display will show the next or previous caller information.
- To return to the standby mode, press **FUNCTION/EXIT/CH**.

```
     Clear
```

To erase all entries in the Caller List

Before erasing all entries, make sure that “`0 new call`” is displayed.

1 Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List.

```
  0 new call
▼▲   ▶=Directory
```

2 Press **CLEAR**.

3 Press ▼ or ▲ to select “`All clear`”.

```
 Exit
▶All clear
▼▲         ▶=Yes
```

4 Press **FWD/EDIT** ▶ (`Yes` key) or **CLEAR**.

- A beep sounds and all entries are erased.
- The handset will return to the standby mode.

```
   All clear
```

One-Touch Dialer

A phone number stored in the **DIRECT** button can be dialed with a one-touch operation.

Storing a Phone Number in the DIRECT Button

Make sure the handset is in the standby mode.

1 Press **FUNCTION/EXIT/CH**.

2 Press ▼ or ▲ repeatedly until the arrow points to “`Program`”.

```
 Ringer volume
▶Program
▼▲          ▶=Yes
```

3 Press **FWD/EDIT** ▶ (`Yes` key).

4 While the arrow points to “`Save DIRECT#`”, press **FWD/EDIT** ▶ (`Yes` key).

```
▶Save DIRECT#
 Set flash time
▼▲           ▶=Yes
```

5 Enter a phone number, up to 48 digits.

- Each time you press **CLEAR** the digit to the left of the cursor is erased. To erase all of the digits, press and hold **CLEAR**.
- The last 32 digits number you entered will be displayed. To confirm the remaining number, press **BACK** ◀ or **FWD/EDIT** ▶.

```
█

◀▶          ▼=Next
```

```
1234567890123456
7890123456789012
◀▶          ▼=Next
```

6 Press ▼ (`Next` key).

- If you want to edit the entered number, press ▲ (`Edit` key) and return to step 5.

```
1234567890123456
7890123456789012
▲=Edit     ▶=Save
```

7 Press **FWD/EDIT** ▶ (`Save` key).

- A beep sounds.
- To return to the standby mode, press **FUNCTION/EXIT/CH**.

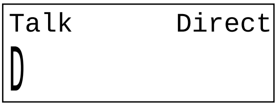
```
1234567890123456
7890123456789012
Save DIRECT#
```

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If a pause is required for dialing, **REDIAL/PAUSE** can be stored in a phone number counting as one digit (p. 44) in step 5.

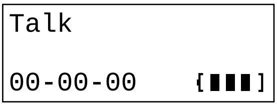
Dialing the Stored Number in the DIRECT Button

1 Press **DIRECT**.

- The stored number is dialed automatically.
- After a few seconds, the display will show the length of the call and the battery strength.



```
Talk      Direct
D
```



```
Talk

00-00-00   [▮▮▮]
```

2 To hang up, press **TALK** or place the handset on the base unit.

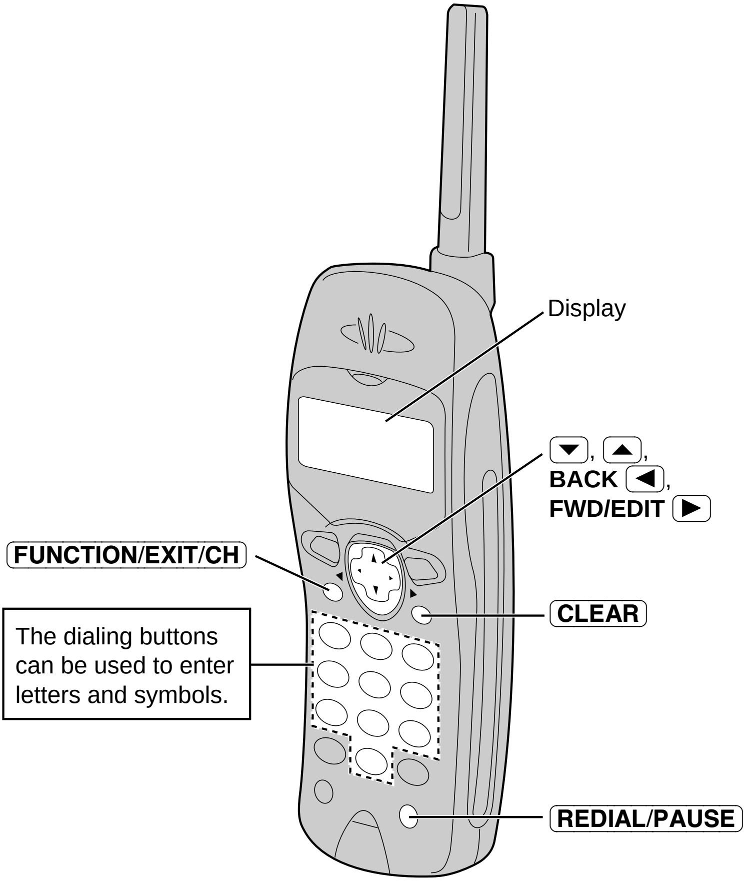
- You can also dial the stored number in the **DIRECT** button by pressing **TALK** and **DIRECT**.

Using the Directory

You can store up to 50 names and phone numbers in the directory. All directory items are sorted by the first word in alphabetical order.
Using the directory, you can make a call by selecting a name on the handset display.

Storing Names and Numbers in the Directory

Make sure the handset is in the standby mode.


Display
▼, ▲,
BACK ◀,
FWD/EDIT ▶
FUNCTION/EXIT/CH
CLEAR
The dialing buttons can be used to enter letters and symbols.
REDIAL/PAUSE

➡

1 Press **FUNCTION/EXIT/CH**.

```
▶Save directory
 Voicemail dial
▼▲          ▶=Yes
```

2 While the arrow points to “Save `directory`”, press **FWD/EDIT** ▶ (`Yes` key).

- The display shows the number of stored items in the directory.

```
Directory=
    20 items
```

3 Enter a name, up to 15 characters, with the dialing buttons, **BACK** ◀ or **FWD/EDIT** ▶.

- See the steps for entering names and symbols (p. 34).
- If a name is not required, press ▼ (`Next` key) and go to step 5.

```
Enter name
█
◀▶         ▼=Next
```

```
Enter name
Tom Jones
◀▶         ▼=Next
```

4 Press ▼ (`Next` key).

```
Enter phone no.
```

5 Enter a phone number, up to 22 digits.

- Each time you press **CLEAR** the digit to the left of the cursor is erased. To erase all of the digits, press and hold **CLEAR**.

```
0987654321█

◀▶         ▼=Next
```

6 Press ▼ (`Next` key).

```
Tom Jones
0987654321
           ▶=Save
```

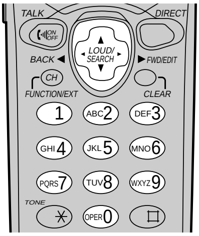
7 Press **FWD/EDIT** ▶ (`Save` key).

- A beep sounds.
- The display will return to step 2. You can continue storing other items after pressing **FWD/EDIT** ▶ (`Yes` key).
- To return to the standby mode, press **FUNCTION/EXIT/CH**.

- If a pause is required for dialing, **REDIAL/PAUSE** can be stored in a phone number counting as one digit (p. 44) in step 5.
- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If the display shows “`Directory full`” in step 2, the display will return to step 1. Press **FUNCTION/EXIT/CH** to exit the list. To erase other stored items from the directory, see page 39.

Steps for Entering Names and Symbols

The handset dialing buttons (0 to 9), **BACK** ◀ and **FWD/EDIT** ▶ can be used to enter letters and symbols.
Each button selects a character as shown below.


TALK
DIRECT
ON OFF
LOUD/ SEARCH
BACK ◀
▶ FWD/EDIT
CH
FUNCTION/EXT
CLEAR
1
ABC2
DEF3
GHI4
JKL5
MNO6
PQRS7
TUV8
WXYZ9
TONE
*
OPER0
#

	Number of times key is pressed										
Keys	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**
1	#	&	’	(	)	*	,	–	.	/	1
2	A	B	C	a	b	c	2				
3	D	E	F	d	e	f	3				
4	G	H	I	g	h	i	4				
5	J	K	L	j	k	l	5				
6	M	N	O	m	n	o	6				
7	P	Q	R	S	p	q	r	s	7		
8	T	U	V	t	u	v	8				
9	W	X	Y	Z	w	x	y	z	9		
0	0	Blank									
BACK ◀	To move the cursor to the left										
FWD/EDIT ▶	To move the cursor to the right										

- To enter another character using the same dialing button, press **FWD/EDIT** ▶ to move the cursor to the next space.

If you make a mistake while entering a name

Use **BACK** ◀ or **FWD/EDIT** ▶ to move the cursor to the incorrect character, press **CLEAR** to delete and enter the correct character. Each time you press **CLEAR**, a character is erased from the right.
To erase all characters, press and hold **CLEAR**.

For example, to enter “Tom Jones”:

1 Press **(FUNCTION/EXIT/CH)**.

2 While the arrow points to “`Save directory`”, press **FWD/EDIT** (▶) (`Yes` key).

```
Directory=
    20 items
```

```
Enter name
█
◀▶          ▼=Next
```

3 Press (**8**).

```
T
```

4 Press (**6**) six times, then press **FWD/EDIT** (▶) to move the cursor to the right.

```
To█
```

5 Press (**6**) four times.

```
Tom
```

6 Press **FWD/EDIT** (▶) twice to enter a blank.

```
Tom █
```

7 Press (**5**).

```
Tom J
```

8 Press (**6**) six times, then press **FWD/EDIT** (▶) to move the cursor to the right.

```
Tom Jo█
```

9 Press (**6**) five times.

```
Tom Jon
```

10 Press (**3**) five times.

```
Tom Jone
```

11 Press (**7**) eight times.

```
Enter name
Tom Jones
◀▶          ▼=Next
```

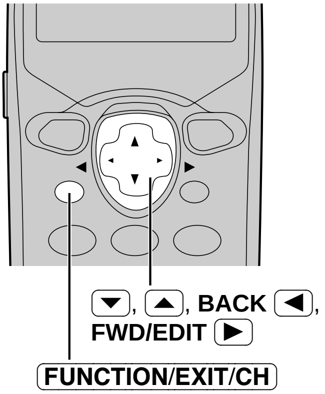
12 When finished, press (▼) (`Next` key).
- To enter a phone number, see page 33, from step 5.

```
Enter phone no.
```

- While entering names, the cursor will flash on the display.

Finding Items in the Directory

Make sure the handset is in the standby mode.


▼, ▲, BACK ◀,
FWD/EDIT ▶
FUNCTION/EXIT/CH

1 Press **BACK** ◀ or **FWD/EDIT** ▶ to enter the directory list.

```
Directory list
▼▲
 ▶=Caller's list
```

2 Press ▼ or ▲.
- The first item or last item is displayed.

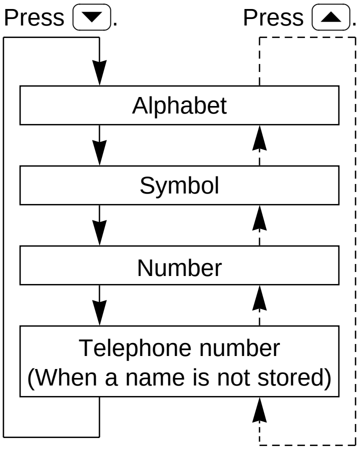
```
Ann
1234567890
```

3 Press ▼ or ▲ repeatedly until the desired item is displayed.
- All directory items are stored in the order shown on the right.

To search for a name by the initial:

① Press the dialing button for the first letter of the desired name until any name with the same initial is displayed (see the Index table on page 37).
Ex. To find "Frank", press 3 repeatedly until the first item under "F" is displayed.

② Press ▼ until the name is displayed.


Press ▼.
Press ▲.
Alphabet
Symbol
Number
Telephone number
(When a name is not stored)

- You can leave the directory list any time by pressing FUNCTION/EXIT/CH.
- If "`No items stored`" is displayed in step 2, the directory is empty. To return to the standby mode, press FUNCTION/EXIT/CH.
- In step 1, you can go to the Caller List by pressing **FWD/EDIT** ▶ (p. 24).

Keys	**Index**	**Keys**	**Index**
1	Other symbols, 1	6	M, N, O, 6
2	A, B, C, 2	7	P, Q, R, S, 7
3	D, E, F, 3	8	T, U, V, 8
4	G, H, I, 4	9	W, X, Y, Z, 9
5	J, K, L, 5	0	0

Dialing from the Directory

1 Press **BACK** (◀) or **FWD/EDIT** (▶) to enter the directory list.

2 Press (▼) or (▲).
- The first item or last item is displayed.

3 Press (▼) or (▲) repeatedly to find the directory item that you want to dial (p. 36).

```
Frank
4567890
```

4 Press (**TALK**).
- The number is dialed automatically.

```
Talk
4567890
```

5 To hang up, press (**TALK**) or place the handset on the base unit.

- You can leave the directory list any time by pressing (**FUNCTION/EXIT/CH**).

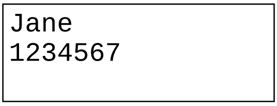
Editing an Item in the Directory

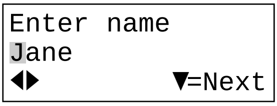
Make sure the handset is in the standby mode.

1 Press **BACK** ◀ or **FWD/EDIT** ▶ to enter the directory list.

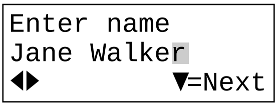
2 Press ▼ or ▲.
- The first item or last item is displayed.

3 Press ▼ or ▲ repeatedly to find the directory item you want to change (p. 36). Press **FWD/EDIT** ▶.

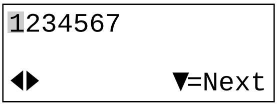

Jane
1234567


Enter name
Jane
◀▶ ▼=Next

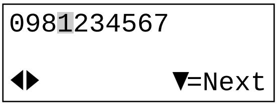
4 Edit the name using the dialing buttons, **BACK** ◀ or **FWD/EDIT** ▶ (p. 34), up to 15 characters.


Enter name
Jane Walker
◀▶ ▼=Next

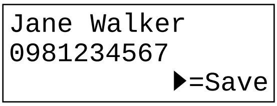
5 Press ▼ (`Next` key).
- If you do not need to change the number, press ▼ (`Next` key) twice and go to step 8.


1234567
◀▶ ▼=Next

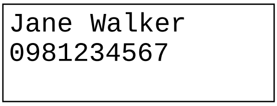
6 Add a number to the current number.
- Each time you press **CLEAR**, a character is erased from the right. To erase all of the digits, press and hold **CLEAR**.


0981234567
◀▶ ▼=Next

7 Press ▼ (`Next` key).


Jane Walker
0981234567
▶=Save

8 When finished, press **FWD/EDIT** ▶ (`Save` key).
- To continue editing other items, repeat steps 3 through 8.
- To return to the standby mode, press **FUNCTION/EXIT/CH**.


Jane Walker
0981234567

- You can leave the directory list any time by pressing **FUNCTION/EXIT/CH**.

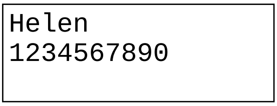
Erasing an Item from the Directory

Make sure the handset is in the standby mode.

1. Press **BACK** (◀) or **FWD/EDIT** (▶) to enter the directory list.

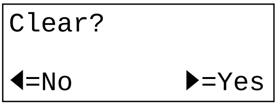
2. Press (▼) or (▲).
   - The first item or last item is displayed.

3. Press (▼) or (▲) repeatedly to find the directory item you want to erase (p. 36).



```
Helen
1234567890
```

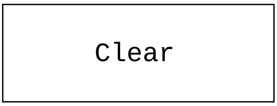
4. Press (**CLEAR**).



```
Clear?

◀=No          ▶=Yes
```

5. Press **FWD/EDIT** (▶) (Yes key) or (**CLEAR**).
   - The display will show the next item.
   - To return to the standby mode, press (**FUNCTION/EXIT/CH**).



```
Clear
```

- You can leave the directory list any time by pressing (**FUNCTION/EXIT/CH**).

Voice Mail Service

Voice mail service is an electronic on-line answering system offered by your telephone company. After subscribing, the voice mail system can answer calls automatically when your line is busy or if calls are not answered. Callers can leave messages by following the pre-recorded instructions. When voice mail messages will be recorded, “`Voicemail`” and “✉” will be displayed.

To use this feature, you must first store your access number.

Storing a Voice Mail Access Number

Make sure the handset is in the standby mode.

1 Press **(FUNCTION/EXIT/CH)**.

2 Press (▼) or (▲) repeatedly until the arrow points to “`Program`”.

```
 Ringer volume
▶Program
▼▲           ▶=Yes
```

3 Press **FWD/EDIT** (▶) (`Yes` key).

4 Press (▼) or (▲) repeatedly until the arrow points to “`Save mailbox#`”.

```
▶Save mailbox#
 Voicemail tone
▼▲           ▶=Yes
```

5 Press **FWD/EDIT** (▶) (`Yes` key).

```
▒

◀▶          ▼=Next
```

6 Enter your access number, up to 32 digits.
- If you enter a wrong number, press **(CLEAR)**. Digits are erased from the right.

```
1234567890

◀▶          ▼=Next
```

7 Press (▼) (`Next` key).
- If you want to edit the entered number, press (▲) (`Edit` key) and return to step 6.

```
1234567890

▲=Edit     ▶=Save
```

8 Press **FWD/EDIT** (▶) (`Save` key).
- A beep sounds.
- To return to the standby mode, press **(FUNCTION/EXIT/CH)**.

```
1234567890

Save mailbox#
```

To erase a stored number

Press and hold (CLEAR) in step 6 on page 40.

- You can exit the programming mode any time by pressing (FUNCTION/EXIT/CH).

Setting the Voice Mail Tone

If your voice mail service sends a voice mail tone after a new message has been recorded, set to “On”. “`Voicemail`” and “✉” will be displayed when a message has been recorded in your mailbox. You will hear a series of voice mail tones followed by a dial tone after pressing (TALK). (Contact your service provider for details about your service.)
Set to “Off” if:
—you do not subscribe to a voice mail service,
—your voice mail service does not send a voice mail tone, or
—the unit is connected to a PBX.
Your phone comes from the factory set to “On”.
Make sure the handset is in the standby mode.

1 Press (FUNCTION/EXIT/CH).

2 Press (▼) or (▲) repeatedly until the arrow points to “`Program`”.

```
 Ringer volume
▶Program
▼▲           ▶=Yes
```

3 Press **FWD/EDIT** (▶) (`Yes` key).

4 Press (▼) or (▲) repeatedly until the arrow points to “`Voicemail tone`”.

```
 Save mailbox#
▶Voicemail tone
▼▲           ▶=Yes
```

5 Press **FWD/EDIT** (▶) (`Yes` key).

```
 Voicemail tone
               :On
▼▲          ▶=Save
```

6 Press (▼) or (▲) to select “`Off`” or “`On`”.
Press **FWD/EDIT** (▶) (`Save` key).
- A beep sounds.
- To return to the standby mode, press (FUNCTION/EXIT/CH).

```
 Voicemail tone
               :Off
```

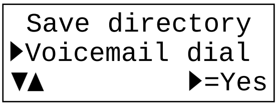
- You can exit the programming mode any time by pressing (FUNCTION/EXIT/CH).

Listening to Voice Mail Messages

After receiving a voice mail message, "`Voicemail`" and "✉" will be displayed. To listen to your voice mail message(s), follow the steps below.

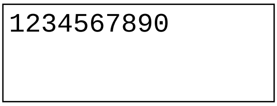
1 Press **(FUNCTION/EXIT/CH)**.

2 Press (▼) or (▲) repeatedly until the arrow points to "`Voicemail dial`".



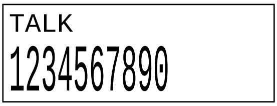
```
 Save directory
▶Voicemail dial
▼▲          ▶=Yes
```

3 Press **FWD/EDIT** (▶) (`Yes` key).
- The stored voice mail access number is displayed (p. 40).



```
1234567890
```

4 Press **(TALK)**.
- The unit automatically dials the access number.

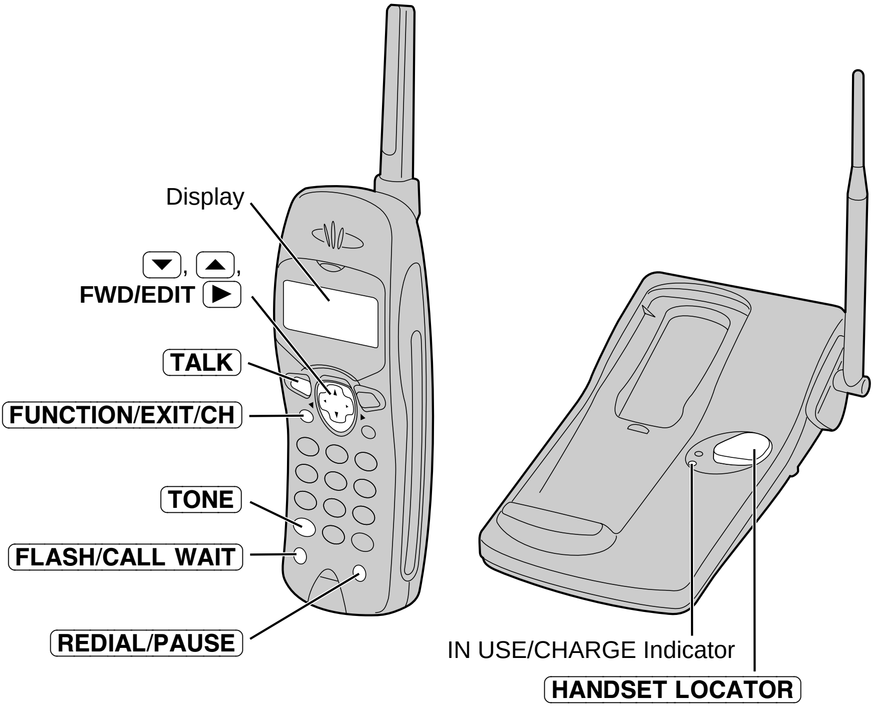


```
TALK
1234567890
```

5 Follow the pre-recorded instructions.

6 When finished, press **(TALK)**.

- If "`Voicemail`" and "✉" still remain on the display even if you have listened to your voice mail message(s), press **(FUNCTION/EXIT/CH)**, and press and hold **(CLEAR)** until the unit beeps. "`Voicemail`" and "✉" will disappear.
- If your voice mail service uses a voice mail tone and the recorded message is over 3 minutes long, "`Voicemail`" and "✉" may not be displayed.
- If your voice mail service uses a voice mail tone, the tone will be heard from any parallel connected phone. If you use another phone to retrieve messages, you have to dial your access number manually.


Display
▼, ▲,
FWD/EDIT ▶
TALK
FUNCTION/EXIT/CH
TONE
FLASH/CALL WAIT
REDIAL/PAUSE
IN USE/CHARGE Indicator
HANDSET LOCATOR

Automatic Security Code Setting

Each time you place the handset on the base unit, the unit automatically selects one of more than a million security codes. These codes help prevent the unauthorized use of your telephone line by another cordless telephone user.

Handset Locator

You can locate the handset or page the handset user with beep tones from the base unit.

1. Press **HANDSET LOCATOR**.
   - The IN USE/CHARGE indicator flashes. The handset beeps for 1 minute and "`Paging`" is displayed on the handset.

2. To stop paging, press **HANDSET LOCATOR** again or press **TALK** twice on the handset.

For Call Waiting Service Users

Press **FLASH/CALL WAIT** if you hear a call-waiting tone while talking.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **FLASH/CALL WAIT** again.
- If this function does not operate properly, consult your telephone company for details.

Call Waiting Caller ID Feature

Call Waiting Caller ID Feature allows your handset to display the second caller’s information. After you hear a call-waiting tone while talking, the handset will display the caller’s name with the phone number and “`----Waiting-----`”.

```
NANCY BROWN
1-000-222-3333
----Waiting-----
```

- The second caller’s information will not be displayed when a parallel connected telephone is in use.
- Please contact your telephone company for details and availability in your area.

Temporary Tone Dialing

(For Rotary or Pulse Service Users)

Press **TONE** before entering access numbers which require tone dialing.

- The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the mode will return to pulse.
- Access numbers entered after pressing **TONE** will not be included when redialing.

How to Use the PAUSE Button

(For Analog PBX Line/Long Distance Service Users)

We recommend you press **REDIAL/PAUSE** if a pause is required for dialing with a PBX or to access a long distance service.

Ex. Line access number **9** (PBX)

9 ➡ **REDIAL/PAUSE** ➡ Phone number

- Pressing **REDIAL/PAUSE** once creates a 3.5 second pause. This prevents misdialing when you redial or dial a stored number.
- Pressing **REDIAL/PAUSE** more than once increases the length of the pause between numbers.

FLASH Button

Pressing **FLASH/CALL WAIT** allows you to use special features of your host PBX such as transferring an extension call or accessing special telephone services (optional) such as call waiting.

Selecting the flash time

The flash time depends on your telephone exchange or host PBX.
You can select the following flash times: “700, 600, 400, 300, 250, 110, 100 or 90 ms (milliseconds)”. Your phone comes from the factory set to “700 ms”.
Make sure the handset is in the standby mode.

1 Press **FUNCTION/EXIT/CH**.

2 Press ▼ or ▲ repeatedly until the arrow points to “`Program`”.

```
 Ringer volume
▶Program
▼▲          ▶=Yes
```

3 Press **FWD/EDIT** ▶ (`Yes` key).

4 Press ▼ or ▲ repeatedly until the arrow points to “`Set flash time`”.

```
 Save DIRECT#
▶Set flash time
▼▲          ▶=Yes
```

5 Press **FWD/EDIT** ▶ (`Yes` key).

```
 Flash time
          :700ms
▼▲         ▶=Save
```

6 Press ▼ or ▲ repeatedly until the desired time is displayed.

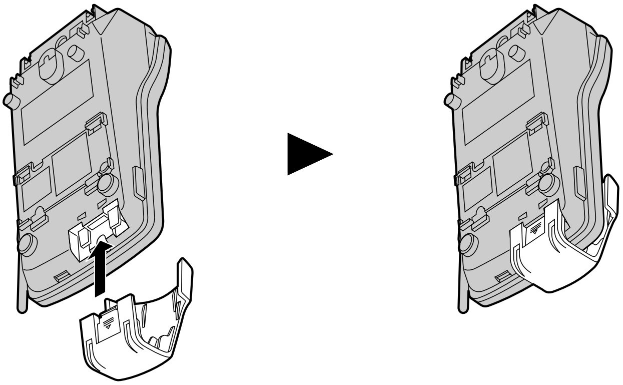
7 Press **FWD/EDIT** ▶ (`Save` key).
- A beep sounds.
- To return to the standby mode, press **FUNCTION/EXIT/CH**.

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If you are connected via a PBX, a longer flash time may be necessary to use PBX functions (transferring a call etc.). Consult your PBX supplier for the correct setting.

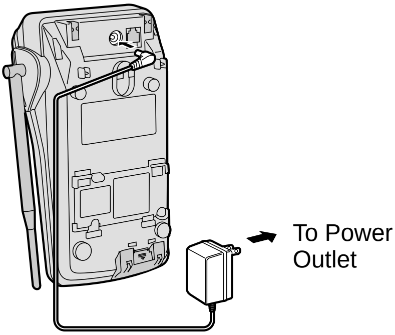
Wall Mounting

This unit can be mounted on a wall phone plate.

1 Set the handset holder as shown.

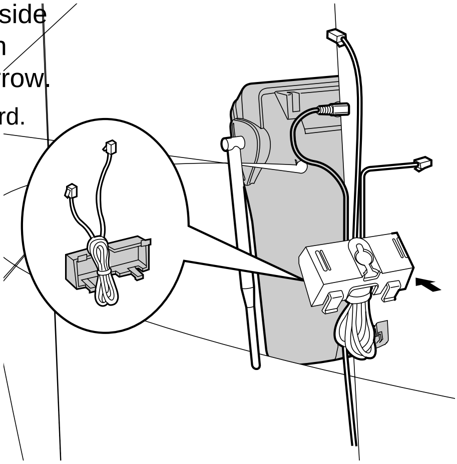


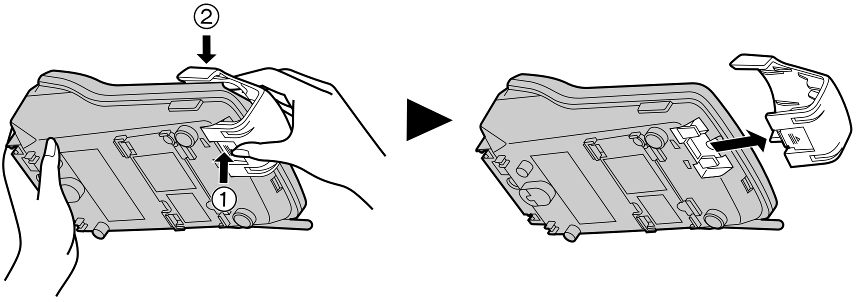
2 Connect the AC adaptor.



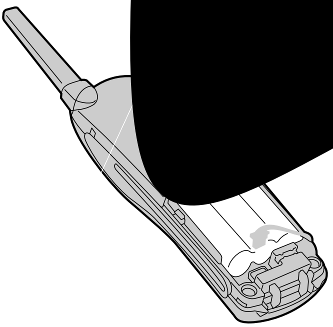
3 Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow.

- The word "UP" should face upward.




②
①

If “Re[illegible]e battery” is displayed and/or “[illegible] fully c[illegible]d, replace the battery with a new Panas[illegible] To or[illegible]l the accessories telephone number o[illegible]



1 [illegible] the cover by sliding [illegible]ssing the arrow.

2 [illegible]e battery and close the [illegible]

3 [illegible]ou charge the new [illegible]out 6 hours in order [illegible] battery strength [illegible]y (p. 11).

[illegible] purchased is powered by a nickel [illegible] is recyclable. At the end of its useful [illegible] and local laws, it is illegal to dispose of this battery into your municipal waste st[illegible] 1-800-8-BATTERY for infor[illegible]on on [illegible]

Before Requesting Help

➧

Problem	Remedy
“`No link to base. Place on cradle and try again.`” is displayed and an alarm tone sounds.	● You are too far from the base unit. Move closer and try again. ● Place the handset on the base unit and try again. ● Plug in the AC adaptor. ● Raise the base unit antenna.
The unit does not work.	● Check the settings (p. 10–15). ● Charge the battery fully (p. 11). ● Clean the charge contacts and charge again (p. 12). ● Install the battery properly (p. 11, 48). ● Place the handset on the base unit and unplug the AC adaptor to reset. Plug in, and try again.
Static, sound cuts in/out, fades. Interference from other electrical units.	● Locate the handset and the base unit away from other electrical appliances (p. 3). ● Move closer to the base unit. ● Raise the base unit antenna. ● Press **(FUNCTION/EXIT/CH)** to select a clearer channel.
The handset does not ring.	● The ringer volume is set to OFF. Set to HIGH or LOW (p. 18). ● If the line is connected to a low voltage system such as a PBX, the unit may not ring. Set the line mode to “B” (p. 15).
The handset display is blank.	● The handset is in the standby mode (p. 12). Press (▼), (▲), **BACK** (◀) or **FWD/EDIT** (▶) to turn the display on.
The handset display is still blank after pressing (▼), (▲), **BACK** (◀) or **FWD/EDIT** (▶).	● Charge the battery fully (p. 11).

Before Requesting Help

Problem	Remedy
You cannot program items, such as the dialing mode.	● Programming is not possible while the unit is in the talk mode or when viewing the Caller List/directory list. ● Do not pause for over 60 seconds while programming. ● Move closer to the base unit. ● ▼, ▲, **BACK** ◀ or **FWD/EDIT** ▶ may have been pressed when you picked up the handset. Press **FUNCTION/EXIT/CH** and try again.
Previously programmed information is erased.	● If a power failure occurs, programmed information may be erased. Reprogram if necessary.
You cannot store a name and phone number in the directory.	● You cannot store an item in the directory while the unit is in the talk mode. ● Do not pause for over 60 seconds while storing.
While programming or searching, the unit starts to ring and stops the program/search.	● To answer the call, press **TALK**. Start again from the beginning after hanging up.
The unit does not display the caller's name and/or phone number.	● Other telephone equipment may be interfering with your phone. Disconnect it and try again. ● Other electrical appliances connected to the same outlet may be interfering with the Caller ID information. ● Telephone line noise may be affecting the Caller ID information.
The display goes to the standby mode while viewing the Caller List.	● Do not pause for over 60 seconds while searching.
When a second call is received during a conversation, the unit does not display the new caller's name and/or phone number.	● The line mode selection is incorrect. See page 15.

Problem	Remedy
HANDSET LOCATOR does not function.	●The handset is too far from the base unit. ●The handset is engaged in an outside call or is viewing the Caller List/directory list. Wait until the IN USE/CHARGE indicator light goes out.
You cannot redial by pressing **REDIAL/PAUSE**.	●If the last number dialed was more than 32 digits long, the number will not be redialed correctly. ●Access numbers entered after pressing **TONE** will not be included when redialing.
“`Recharge battery`” is displayed, “[▮]” flashes or the unit beeps intermittently.	●Charge the battery fully (p. 11).
You charged the battery fully, but “`Recharge battery`” is still displayed and/or “[▮]” continues to flash.	●Clean the charge contacts and charge again (p. 12). ●Install a new battery (p. 48).
The IN USE/CHARGE indicator light does not go out while charging.	●This is normal.
You cannot have a conversation using the handset.	●When an optional headset is connected (p. 13), you must use the headset to talk with the caller. To have a normal cordless phone conversation, disconnect the headset.
You cannot have a conversation using the headset.	●Make sure that an optional headset is connected properly (p. 13).
If you cannot solve your problem.	●Call our customer call center at 1-800-211-PANA(7262). ●Panasonic’s e-mail address for customer inquiries: consumerproducts@panasonic.com for customers in the USA or Puerto Rico ONLY

Important Safety Instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
    A. When the power supply cord or plug is damaged or frayed.
    B. If liquid has been spilled into the unit.
    C. If the unit has been exposed to rain or water.
    D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
    E. If the unit has been dropped or physically damaged.
    F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

FCC and Other Information

If requested by the telephone company, inform them as follows:
FCC Registration No. . . . . (found on the bottom of the unit)
Ringer Equivalence 0.1B
The particular telephone line to which the equipment is connected.

This unit must not be connected to a coin operated line.
If you are on a party line, check with your local telephone company.

Ringer Equivalence No. (REN):
The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped.

However, where prior notice is impractical, the company may temporarily cease service providing that they:
(a) Promptly notify the customer.
(b) Give the customer an opportunity to correct the problem with their equipment.
(c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

When programming emergency numbers and/or making test calls to emergency numbers:

1. Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
2. Perform such activities in the off-peak hours, such as early morning hours or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Privacy of communications may not be ensured when using this phone.

CAUTION:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate this device.

Note:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce, or eliminate, interference.

- **Environment**—do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4″) clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Medical**—consult the manufacturer of any personal medical devices, such as pacemakers, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 905MHz to 925MHz and the power output level can range from 0.001 watts to 0.1 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- **Routine care**—wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet.
- **If there is any trouble**—disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult your telephone company.

For product service

- Panasonic Servicenters are listed in the servicenter directory.
- Call 1-800-211-PANA(7262) for the location of an authorized servicenter.
- Panasonic’s e-mail address for customer inquiries:
  consumerproducts@panasonic.com
  for customers in the USA or Puerto Rico ONLY

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

Symptom

- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

- This cordless telephone is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
- Ce téléphone sans fil est conçu pour être utilisé aux États-Unis d’Amérique. La vente ou l’emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
- Este teléfono sin cordón fue elaborado para uso en los Estados Unidos de América. La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
- このコードレス電話機は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては原則として修理などのサービスは致しかねます。

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Printed in Malaysia **PQQX12623YA-BM** FM0300NN2080 D